

SEAT BELT RETRACTOR WITH INTEGRALLY FORMED FRAME

Abstract

5 A seat belt retractor (20) characterized by low
mass and low operating noise, resistant to dust,
moisture, and corrosion comprising: an integrally
formed, quadrilaterally shaped main body portion
(24). In the preferred embodiment of the invention
10 the frame is injection molded using 50% or greater
long glass fiber plastic or die cast or injection
molded metal. A spring housing wall and wall of a
mechanism cover are also integrally formed in the
sides of the retractor. Positioned within the
15 spring housing wall is a spring coil guide, as well
as an integrally formed anchor, which is used to
hold the outer end of a rewind spring. The
mechanism side of the frame further includes an
integrally formed post or pin to pivotally support a
20 locking pawl.